

Substitute for form 1449A/PTO (Modified)			Complete if Known		
			Application Number	09/904,175	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Filing Date	July 11, 2001	
			First Named Inventor	DUONG, Hau	
			Art Unit	1634	
			Examiner Name	FORMAN, Betty J.	
Sheet	1	of	13	Attorney Docket Number	A-68718-3 (463037-00219)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
W	A1	4,908,319	03-13-1990	Smyczek et al.	
	A2	4,945,045	07-31-1990	Forrest et al.	
	A3	5,038,852	08-13-1991	Johnson et al.	
	A4	5,100,775	03-31-1992	Smyczek et al.	
	A5	5,108,573	04-28-1992	Rubinstein et al.	
	A6	5,126,022	06-30-1992	Soane et al.	
	A7	5,126,034	06-30-1992	Carter et al.	
	A8	5,143,854	09-01-1992	Pirrung et al.	
	A9	5,147,607	09-15-1992	Mochida	
	A10	5,187,096	02-16-1993	Glaver et al.	
	A11	5,192,412	03-09-1993	Kambara et al.	
	A12	5,194,133	03-16-1993	Clark et al.	
	A13	5,200,051	04-06-1993	Cozzette et al.	
	A14	5,242,828	09-07-1993	Bergstrom et al.	
	A15	5,278,043	01-11-1994	Bannwarth et al.	
	A16	5,294,369	03-15-1994	Shigekawa et al.	
	A17	5,296,375	03-22-1994	Kricka et al.	
	A18	5,320,808	06-14-1994	Holen et al.	
	A19	5,360,741	11-01-1994	Hunnell	
	A20	5,391,272	02-21-1995	O'Daly et al.	
	A21	5,443,701	08-22-1995	Willner et al.	
	A22	5,474,796	12-12-1995	Brennan	
	A23	5,500,071	03-19-1996	Kaltenbach et al.	
	A24	5,532,128	07-02-1996	Eggers et al.	
	A25	5,545,531	08-13-1996	Rava et al.	
	A26	5,552,270	09-03-1996	Khrapko et al.	
	A27	5,565,322	10-15-1996	Heller	
	A28	5,573,906	11-12-1996	Bannwarth et al.	
	A29	5,595,712	01-21-1997	Harbster et al.	
	A30	5,599,695	02-04-1997	Pease et al.	
W	A31	5,601,982	02-11-1997	Sargent et al.	

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✓	A32	5,605,662	02-25-1997	Heller et al.	
	A33	5,620,850	04-15-1997	Bamdad et al.	
	A34	5,631,734	05-20-1997	Stern et al.	
	A35	5,632,957	05-27-1997	Heller et al.	
	A36	5,653,939	08-05-1997	Hollis et al.	
	A37	5,657,208	08-12-1997	Noe et al.	
	A38	5,670,322	09-23-1997	Eggers et al.	
	A39	5,716,825	02-10-1998	Hancock et al.	
	A40	5,750,015	05-12-1998	Soane et al.	
	A41	5,755,942	05-26-1998	Zanzucchi et al.	
	A42	5,759,866	06-02-1998	Machida et al.	
	A43	5,837,832	11-17-1998	Chee et al.	
	A44	5,842,787	12-00-1998	Kopf-Sill et al.	
	A45	5,843,655	12-01-1998	McGall	
	A46	5,843,767	12-01-1998	Beattie	
	A47	5,846,708	12-08-1998	Hollis et al.	
	A48	5,849,486	12-15-1998	Heller et al.	
	A49	5,856,174	01-05-1999	Lipshutz et al.	
	A50	5,858,193	01-12-1999	Zanzucchi et al.	
	A51	5,861,242	01-19-1999	Chee et al.	
	A52	5,863,502	01-26-1999	Southgate et al.	
	A53	5,871,918	02-16-1999	Thorp et al.	
	A54	5,874,046	02-23-1999	Megerle	
	A55	5,874,219	02-23-1999	Rava et al.	
	A56	5,891,630	04-06-1999	Eggers et al.	
	A57	5,922,591	07-13-1999	Anderson et al.	
	A58	5,929,208	07-27-1999	Heller et al.	
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	A60	5,939,312	08-17-1999	Baier et al.	
	A61	5,942,443	08-24-1999	Parce et al.	
	A62	5,945,334	08-31-1999	Besemer et al.	

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W	A63	5,958,791	09-28-1999	Roberts et al.	
	A64	5,965,452	10-12-1999	Kovacs	
	A65	5,971,355	10-26-1999	Biegelsen et al.	
	A66	5,985,119	11-16-1999	Zanzucchi et al.	
	A67	5,991,030	11-23-1999	Yamamoto et al.	
	A68	6,117,973	09-12-2000	Batz et al.	
W	A69	6,288,221 B1	09-11-2001	Grinstaff et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
W	B1	DE 1 9725 190 ✓	12-17-1998	Innova GmbH	Abstract only	
W	B2	EP 0 142 301 ✓	05-22-1985	Serono Diagnostics Limited		
W	B3	EP 0 213 825 ✓	03-11-1987	Molecular Devices Corp		
	B4	EP 0 339 821 A1	11-02-1989	United Kingdom Atomic Energy Authority		
W	B5	EP 0 854 362 A2 ✓	07-22-1998	Japan Science & Technology Corp		
	B6	EP 0 859 230 A1 ✓	08-19-1998	Cranfield University		
	B7	EP 0 870 541 A2 ✓	10-14-1998	Eastman Kodak Co.		
	B8	EP 0 969 083 A1 ✓	01-05-2000	Olympus Optical Co. Ltd.		
	B9	JP 11-183437 A ✓	07-01-1999	Shimadzu Corp.	Abstract only	
	B10	JP 63-238166 A ✓	10-04-1988	Mitsubishi Corp.	Abstract only	
	B11	WO 97/09337 A1 ✓	03-00-1997	Deutsches Krebsforschungszentrum Stiftung des Öffentlichen Rechts	Abstract only	
	B12	WO 98/50154 A1 ✓	11-00-1998	University of Minnesota		
	B13	WO 93/22053 A1 ✓	11-11-1993	The Trustees of the University of Pennsylvania		
	B14	WO 93/22678 A2/A3 ✓	11-11-1993	Massachusetts Institute of Technology		
W	B15	WO 93/25898 A1 ✓	12-23-1993	Medisense, Inc.		

Examiner Signature	<i>W</i>	Date Considered	10/05
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✓	B16	WO 94/22889 A1 ✓	10-13-1994	Cis Bio International		
	B17	WO 95/11755 A1 ✓	05-04-1995	Houston Advance Research Center	Abstract only	
	B18	WO 97/12030 A1	04-03-1997	Nanogen, Inc.		
	B19	WO 97/27324 A1 ✓	07-31-1997	David Saroff Research Center		
	B20	WO 97/27473 A1 ✓	07-31-1997	Northwestern University		
	B21	WO 97/31256 A1	08-28-1997	Cornell Research Foundation, Inc.		
	B22	WO 97/36681 A1 ✓	10-09-1997	Perkin Elmer Corp.		
	B23	WO 97/41425 A1 ✓	11-06-1997	Pence, Inc.		
	B24	WO 97/44651 A1 ✓	11-27-1997	Australian Membrane and Biotechnology Institute		
	B25	WO 98/01758 A1 ✓	01-15-1998	Nanogen, Inc.		
	B26	WO 98/15893 A1 ✓	04-16-1998	Advanced Risc Mach Ltd.		
	B27	WO 98/27229 A1 ✓	06-25-1998	University of Chicago		
	B28	WO 98/28444 A2/A3 ✓	07-02-1998	University of Chicago		
	B29	WO 98/43739 A2/A3	10-08-1998	Biosite		
	B30	WO 98/49344 A1 ✓	11-05-1998	Lockheed Martin Energy Research Corp.		
	B31	WO 98/49557 A1 ✓	11-05-1998	B-E Safe, Inc.		
	B32	WO 99/07879 A1 ✓	02-18-1999	Fraunhofer Inst. Siliziumtechno, Univ. of Souther CA		
	B33	WO 99/14596 A1 ✓	03-25-1999	AB Sangtec Medical		
	B34	WO 99/17093 A1 ✓	04-09-1999	The Regents of the University of Michigan		
	B35	WO 99/26729 A1 ✓	06-03-1999	Universite de Montreal		
	B36	WO 99/29711 A1 ✓	06-17-1999	Nanogen, Inc.		
	B37	WO 01/34302 A2 ✓	05-17-2001	Motorola, Inc.		
	B38	WO 01/42508 A2 ✓	06-14-2001	Motorola, Inc.		
	B39	WO 01/54813 A2/A3 ✓	08-02-2001	Clinical Micro Sensors, Inc.		

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K	C1	AIZAWA, M., et al., "Integrated molecular systems for biosensors," <i>Sens. Actuators B Chem.</i> 24(1&3):1-5 (Mar. 1995).		
	C2	ALBERS, W., et al., "Design of novel molecular wires for realizing long-distance electron transfer," <i>Bioelectrochem. Bioenerg.</i> 42(1):25-33 (Apr. 1997).		
	C3	ALSFASSER, R., et al., "Novel Building Blocks for Biomimetic Assemblies. Synthesis, Characterization, and Spectroscopic and Electrochemical Properties of New Bidentate Ligands Derived from Lysine and Cystine and Their Complexes with Bis(2,2'-bipyridine)ruthenium(II)," <i>Inorg. Chem.</i> 35(3):628-636 (Jan. 1996).		
	C4	ARKIN, M., et al., "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>J. Inorg. Biochem. Abstr.</i> , 6th Int. Conf. Bioinorg. Chem. 51(1&2):526 (1993).		
	C5	ARKIN, M., et al., "Rates of DNA-Mediated Electron Transfer Between Metallointercalators," <i>Science</i> 273(5274):475-480 (Jul. 1996).		
	C6	BEATTIE, K., et al., "Advances in Genosensor Research," <i>Clin. Chem.</i> 41(5):700-706 (1995).		
	C7	BECKER, H., et al., "Microfluidic manifolds by polymer hot embossing for μ -TAS applications," <i>Micro Total Analysis Systems '98, Proc. μ-TAS '98</i> , pp. 253-256, Banff, BC, CA (Oct. 13 - 16, 1998).		
	C8	BELGRADER, P., et al., "Rapid pathogen detection using a microchip PCR array instrument," <i>Clin. Chem.</i> 10(44):2191-2194 (1998).		
	C9	BIGNOZZI, C., et al., "A simple poly(pyridine)ruthenium(II) photosensitizer: (2,2'-bipyridine)tetracyanoruthenate(II)," <i>J. Am. Chem. Soc.</i> 108(24):7872-7873 (Nov. 1986).		
	C10	BILEWICZ, R., et al., "Monomolecular Langmuir-Blodgett films at electrodes: electrochemistry at single molecule 'gate sites'," <i>Langmuir</i> 11(6):2256-2266 (Jun. 1995).		
	C11	BJERRUM, M., et al., "Electron transfer in ruthenium-modified proteins," <i>J. Bioenerg. Biomembr.</i> 27(3):295-302 (Jun. 1995).		
	C12	BLONDER, R., et al., "Application of Redox Enzymes for Probing the Antigen-Antibody Association at the Monolayer Interfaces: Development of Amperometric Immunosensor Electrodes," <i>Anal. Chem.</i> 68(18):3151-3157 (Sep. 1996).		
	C13	BOWLER, B.E., et al., "Long-Range electron transfer in donor (spacer) acceptor molecules and proteins," <i>Prog. Inorg. Chem. Bioinorg. Chem.</i> 38:259-322 (1990).		
	C14	BRUN, A., et al., "Photochemistry of intercalated quaternary diazaaromatic salts," <i>J. Am. Chem. Soc.</i> 113(21):8153-8159 (Oct. 1991).		
	C15	BUMM, L.A., et al., "Are single molecular wires conducting?," <i>Science</i> 271(5226):1705-1707 (Mar. 1996).		
	C16	CARLSSON, C., et al., "Screening for genetic mutations," <i>Nature</i> 380(6571):207 (Mar. 1996).		
W	C17	CARTER, M., et al., "Electrochemical investigations of the interaction of metal chelates with DNA. 3. Electrogenated chemiluminescent investigation of the interaction of tris(1,10-phenanthroline)ruthenium(II) with DNA," <i>Bioconj. Chem.</i> 1(4):257-263 (Jul. - Aug. 1990).		


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M	C18	CARUANA, D. J., et al., "Enzyme-amplified amperometric detection of hybridization and of a single base pair mutation in an 18-base oligonucleotide on a 7- μ m-diameter microelectrode," <i>J. Am. Chem. Soc.</i> 121(4):769-774 (Feb. 1999).		
	C19	CHAILAPAKUL, O., et al., "Interactions between organized, surface-confined monolayers and liquid-phase probe molecules. 4. Synthesis and characterization of nanoporous molecular assemblies: mechanism of probe penetration," <i>Langmuir</i> 11(4):1329-1340 (Apr. 1995).		
	C20	CHARYCH, D., et al., "Direct colorimetric detection of a receptor-ligand interaction by polymerized bilayer assembly," <i>Science</i> 261(5121):585-588 (Jul. 1993).		
	C21	CHENG, J., et al., "Selectivity and sensitivity of self-assembled thioctic acid electrodes," <i>Anal. Chem.</i> 64(17):1998-1999 (Sep. 1992).		
	C22	CHIDSEY, C., et al., "Coadsorption of ferrocene-terminated and unsubstituted alkanethiols on gold: electroactive self-assembled monolayers," <i>J. Am. Chem. Soc.</i> 112(11):4301-4306 (May 1990).		
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M	C35	DURHAM, B., et al., "Photoinduced electron-transfer kinetics of singly labeled ruthenium bis(bipyridine) dicarboxybipyridine cytochrome c derivatives," <i>Biochemistry</i> 28(21):8659-8665 (Oct. 1989).		
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W	C45	FUJIKAWA, H., et al., "Kinetics of Escherichia coli destruction by microwave irradiation," <i>Appl. Environ. Microbiol.</i> 58(3):920-924 (Mar. 1992).		
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N	C53	HEGNER, M., et al., "Immobilizing DNA on gold via thiol modification for atomic force microscopy imaging in buffer solutions," <i>FEBS Lett.</i> 336(3):452-456 (Dec. 1993).		
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W	C89	MIR, K., et al., "Determining the influence of structure on hybridization using oligonucleotide arrays," <i>Nat. Biotechnol.</i> 17(8):788-792 (Aug. 1999).		
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			First Named Inventor	DUONG, Hau	
			Art Unit	1634	
			Examiner Name	FORMAN, Betty J.	
Sheet	11	of	13	Attorney Docket Number	A-68718-3 (463037-00219)

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W	C106	POTYRAILO, R., et al., "Adapting selected nucleic acid ligands (aptamers) to biosensors," <i>Anal. Chem.</i> 70(16):3419-3425 (Aug. 1998).		
	C107	PREZYNA, L., et al., "Interaction of cationic polypeptides with electactive polypyrrole/poly(styrenesulfonate) and poly(n-methylpyrrole)/poly(styrenesulfonate) films," <i>Synth. Metals</i> 41(3):979-981 (May. 1991).		
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	C113	SABATANI et al., "Thioaromatic monolayers on gold: a new family of self-assembling monolayers," <i>Langmuir</i> 9(11):2974-2981 (Nov. 1993).		
	C114	SACHS, S., et al., "Rates of interfacial electron transfer through conjugated spacers," <i>J. Am. Chem. Soc.</i> 119(43):10563-10564 (Oct. 1997).		
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	C117	SARGENT, A., et al., "The electrochemistry of antibody-modified conducting polymer electrodes," <i>J. Electroanal. Chem.</i> 470(2):144-456 (Jul. 1999).		
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	C119	SCHUHMANN, W., et al., "electron transfer between glucose oxidase and electrodes via redox mediators bound with flexible chains to the enzyme surface," <i>J. Am. Chem. Soc.</i> , 1991, 113:1394-1397.		
	C120	SCHUMM, J., et al., "Iterative Divergent/Convergent Approach to Linear Conjugated Oligomers by Successive Doubling of the Molecular Length: A Rapid Route to a 128 Å-Long Potential Molecular Wire," <i>Angew. Chem. Int. Ed. Engl.</i> 33(13):1360-1363 (Jul. 1994).		
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	C122	SMALLEY, J., et al., "Kinetics of Electron Transfer through Ferrocene-Terminated Alanethiol Monolayers Gold," <i>J. Phys. Chem.</i> 99(35):13141-13149 (Aug. 1995).		
W	C123	SMITH, E., et al., "Corticotropin releasing factor induction of leukocyte-derived immunoreactive ACTH and endorphins," <i>Nature</i> 321(6073):881-882 (Jun. 1986).		

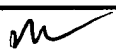
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W	C124	SMITH, L., et al., "Mapping and Sequencing the Human Genome: How to Proceed," <i>Biotechnology</i> 5:933-942 (1987).		
	C125	SMITH, L., et al., "The synthesis and use of fluorescent oligonucleotides in DNA sequence analysis," <i>Methods Enzymol.</i> 155:260-301 (1987).		
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	C127	STEINBERG, S., et al., "Ion-Selective Monolayer Membranes Based upon Self-Assembling Tetradentate Ligand Monolayers on Gold Electrodes. 2. Effect of Applied Potential on Ion Binding," <i>J. Am. Chem. Soc.</i> 113(14):5176-5182 (Jul. 1991).		
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	C135	THORP, H., et al., "Cutting out the middleman: DNA biosensors based on electrochemical oxidation," <i>Trends Biotechnol.</i> 16(3):117-121 (Mar. 1998).		
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	C137	TOPFER, M. L., "Technology," <i>Thick-Film Microelectronics: Fabrication, Design, and Applications: Microelectronics Series</i> , pp. 41-59, Van Nostrand Reinhold Co., New York, NY (1971).		
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	C139	TSUNEO, M., et al., "Coumarin-fluorescein pair as a new donor-acceptor set for fluorescence energy transfer study of DNA," <i>Tetrahedron Lett.</i> 41(15):2605-2608 (2000).		
W	C140	TULLIUS, T.D., et al., "Iron(II) EDTA used to measure the helical twist along any DNA molecule," <i>Science</i> 230(4726):679-681 (Nov. 1985).		

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W	C141	TURYAN, I., et al., "Selective Determination of Cr(VI) by Self-Assembled Monolayer-Based Electrode," <i>Anal. Chem.</i> 69(5):894-897 (Mar. 1997).		
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	C144	WASHIZU, M., et al., "Applications of Electrostatic Stretch-and-Positioning of DNA," <i>IEEE Trans. Ind. Appl.</i> 31(3):447-457 (May - Jun. 1995).		
	C145	WEBSTER et al., "An inexpensive plastic technology for microfabricated capillary electrophoresis chips," <i>Micro Total Analysis Systems '98, Proc. μ-TAS '98</i> , pp. 249-252, Banff, BC, CA (Oct. 13 - 16, 1998).		
	C146	WELCH, T., et al., "Distribution of metal complexes bound to DNA determined by normal pulse voltammetry," <i>J. Phys. Chem.</i> 100(32):13829-13836 (Aug. 1996).		
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	C149	WILLIAMS, J., et al., "Studies of oligonucleotide interactions by hybridisation to arrays: the influence of dangling ends on duplex yield," <i>Nucleic Acids Res.</i> 22(8):1365-1367 (Apr. 1994).		
	C150	WILLNER, I., et al., "Application of photoisomerizable antigenic monolayer electrodes as reversible amperometric immunosensors," <i>J. Am. Chem. Soc.</i> 116(20):9365-9366 (Oct. 1994).		
	C151	WILLNER, I., et al., "Development of novel biosensor enzyme electrodes: glucose oxidase multilayer arrays immobilized onto self-assembled monolayers on electrodes," <i>Adv. Mater.</i> 5(12):912-915 (1993).		
	C152	WILLNER, I., et al., "Electrical communication between electrodes and nad(p) ⁺ -dependant enzymes using pyrroloquinolinequinon-enzyme electrodes in a self-assembled monolayer configuration: design of a new class of amperometric biosensors," <i>Anal. Chem.</i> 66(9):1535-1539 (May 1994).		
	C153	WILLNER, I., et al., "Photoregulated binding of spiropyran-modified concanavalin a to monosaccharid-functionalized self-assembled monolayers on gold electrodes," <i>J. Am. Chem. Soc.</i> 115(11):4937-4938 (Jun. 1993).		
	C154	WILLNER, I., et al., "Photoswitchable biomaterials as grounds for optobioelectronic devices," <i>Bioelectrochem.</i> 42(1):43-57 (1997).		
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W	C156	ZEHNER, R., et al., Electrochemical evaluation and enhancement via heterogeneous exchange of the passivating properties and stability of self-assembled monolayers derived from the rigid rod arenethiols, X - C ₆ H ₄ -C≡C ₆ H ₄ -C≡C-C ₆ H ₄ -SH (X = H and F)," <i>Langmuir</i> 13(11):2973-2979 (May 1997).		

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